

---

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** Iron Oxide Black, Liquid

**INCI Name:** CI 77499 (iron oxides),  
octyldodecanol

**Lot Number:** Not available (data may vary slightly  
with different lots or batches)

**CAS Number:** 1317-61-9, 5333-42-6

**Expiration Date:** 24 months from production date

Property	Specification	Analysis
Antimony (SB) (ICP-MS)	10.00 MAX	0.21
Appearance (Organoleptic)	Paste	Paste
Arsenic (AS) (ICP-MS)	3.00 MAX	0.03
Barium (BA) (ICP-MS)	50.00 MAX	1.44
Cadmium (CD) (ICP-MS)	1.00 MAX	0.06
Cadre Color Evaluation	Black	Black
Chromium (CR) (ICP-MS)	50.00 MAX	5.85
Cobalt (CO) (ICP-OES)	100.00 MAX	13.47
Color Strength 97%	Pass	Pass
Copper (CU) (ICP-MS)	50.00 MAX	1.51
Delta E	3.00 MAX	0.25
Hegman Grind	7.00 - 8.00	7.80
Lead (PB) (ICP-MS)	10 ppm MAX	1.13 ppm

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.

Mercury (ICP-MS)	1 MAX	0
Nickel (NI) (ICP-MS)	50.00	13.59
Odor (Organoleptic)	Characteristic, to match standard	Conforms
Selenium (SE) (ICP-MS)	10.00	0.60
SHADE COMPARISON (Colorimeter)	Conforms	Conforms
TPC Cosmetic Modified Modified ISO	100 MAX	0
Yeasts & Mold Cosmetic ISO	100 cfu/g MAX	0
Zinc (ZN) (ICP-MS)	100 MAX	32.48

“Certified in compliance with the terms of the US-Canada Organic Equivalency Arrangement. The above data was obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.” This report is not to be signed. All data are as per our supplier.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company’s knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user’s responsibility to satisfy themselves as to the suitability & completeness of such information for their own particular use.